

MATCHING Use what you know about end behavior to match the polynomial function with its graph.

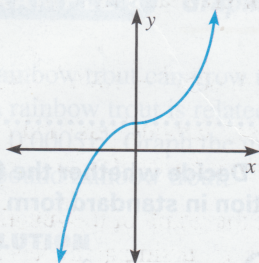
49. $f(x) = 4x^6 - 3x^2 + 5x - 2$

50. $f(x) = -2x^3 + 5x^2$

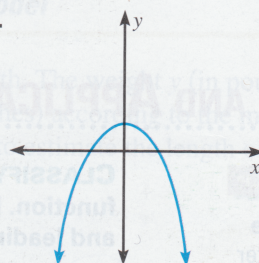
51. $f(x) = -x^4 + 1$

52. $f(x) = 6x^3 + 1$

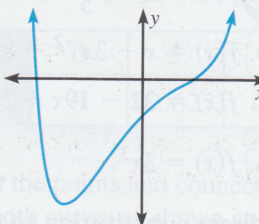
A.



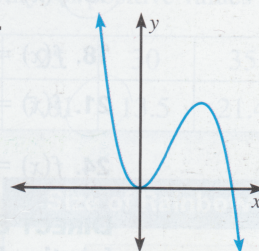
B.



C.



D.



DESCRIBING END BEHAVIOR Describe the end behavior of the graph of the polynomial function by completing these statements: $f(x) \rightarrow ?$ as $x \rightarrow -\infty$ and $f(x) \rightarrow ?$ as $x \rightarrow +\infty$.

53. $f(x) = -5x^4$

54. $f(x) = -x^2 + 1$

55. $f(x) = 2x$

56. $f(x) = -10x^3$

57. $f(x) = -x^6 + 2x^3 - x$

58. $f(x) = x^5 + 2x^2$

59. $f(x) = -3x^5 - 4x^2 + 3$

60. $f(x) = x^7 - 3x^3 + 2x$

61. $f(x) = 3x^6 - x - 4$

62. $f(x) = 3x^8 - 4x^3$

63. $f(x) = -6x^3 + 10x$

64. $f(x) = x^4 - 5x^3 + x - 1$